

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re PATENT APPLICATION of  
Inventor(s): Mills

Group Art Unit: 1754

Appln. No.: 09/225,687

Examiner: Langel

Filing Date: 1/6/1999

Title: INORGANIC HYDROGEN AND HYDROGEN POLYMER COMPOUNDS  
AND APPLICATIONS THEREOF

\* \* \* \*

March 12, 2001  
(March 11, 2001 = Sunday)

**EXPLANATION OF AMENDMENT**

Hon. Asst. Commissioner  
of Patents and Trademarks  
Washington, D.C. 20231

Sir:

The claims have been amended as follows, insertions and [deletions].

**IN THE CLAIMS:**

1. (Amended) A compound comprising  
at least one monomer or polymer comprising:
  - (a) at least one neutral, positive, or negative increased binding energy hydrogen species having a binding energy
    - (i) greater than the binding energy of the corresponding ordinary hydrogen species, or
    - (ii) greater than the binding energy of any hydrogen species for which the corresponding ordinary hydrogen species is unstable or is not observed because the ordinary hydrogen species' binding energy is less than thermal energies at ambient conditions, or is negative; and

(b) at least one other element.

50. (Amended) A compound of claim 1 having a formula  $M(H_x)_n$  wherein n is an integer, x is an integer from 68 to 72, M is other element such as any atom, molecule, or compound, and the hydrogen content  $(H_x)_n$  of the compound comprises at least one increased binding energy hydrogen species.

76. (Amended) A compound of claim 20 wherein said doubly negative charged anion is selected from the group consisting of carbonate ion, oxides, phosphates, hydrogen phosphates, and sulfate ion.

77. (Amended) A compound of claim 22 wherein said doubly negative charged anion is selected from the group consisting of carbonate ion, oxides, phosphates, hydrogen phosphates, and sulfate ion.

78. (Amended) A compound of claim 55 wherein said doubly negative charged anion is selected from the group consisting of carbonate ion, oxides, phosphates, hydrogen phosphates, and sulfate ion.

79. (Amended) A compound of claim 56 wherein said doubly negative charged anion is selected from the group consisting of carbonate ion, oxides, phosphates, hydrogen phosphates, and sulfate ion.

80. (Amended) A compound of claim 57 wherein said doubly negative charged anion is selected from the group consisting of carbonate ion, oxides, phosphates, hydrogen phosphates, and sulfate ion.

81. (Amended) A compound of claim 58 wherein said doubly negative charged anion is selected from the group consisting of carbonate ion, oxides, phosphates, hydrogen phosphates, and sulfate ion.

82. (Amended) A compound of claim 59 wherein said doubly negative charged anion is selected from the group consisting of carbonate ion, oxides, phosphates, hydrogen phosphates, and sulfate ion.

83. (Amended) A compound of claim 60 wherein said doubly negative charged anion is selected from the group consisting of carbonate ion, oxides, phosphates, hydrogen phosphates, and sulfate ion.

84. (Amended) A compound of claim 61 wherein said doubly negative charged anion is selected from the group consisting of carbonate ion, oxides, phosphates, hydrogen phosphates, and sulfate ion.

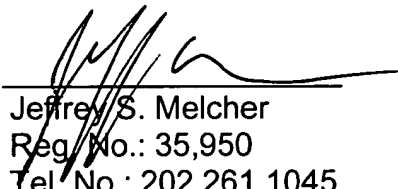
99. (Amended) The compound of claim 1, wherein the compound is formulated to be statically chargeable [that can be statically charged and comprises a component of a xerographic toner].

100. (Amended) The compound of claim 1, wherein the compound is formulated to provide magnetic properties [that may be useful as a magnet or may comprise a magnetic computer memory storage material].

101. The compound of claim 1, wherein the compound is formulate to provide properties suitable for use as [that comprises] an etching agent.

Respectfully submitted,

Manelli, Denison & Selter, PLLC

By   
Jeffrey S. Melcher  
Reg. No.: 35,950  
Tel. No.: 202.261.1045  
Fax. No.: 202.887.0336

Customer No. 20736